

## CLAIM AMENDMENTS

Please cancel Claims 1-24 and add new Claims 25-30 to the application as follows:

1.-24. (Cancelled)

25. (New) An information processing apparatus for transmitting data to a printer, wherein the data is divided in a band unit in each of a plurality of colors in registration with a position of an image forming section for each color, in which when an N-th page is printed, areas on the N-th page overlapping an (N-1)th page, an (N+1)th page, and overlapping no page, are defined as Na, Nc and Nb, respectively, said information processing apparatus comprising:

a first discrimination unit configured to discriminate whether data of the N-th page and the (N+1)th page can be stored in a memory;

a second discrimination unit configured to discriminate whether data in the area Na has been transmitted to the printer; and

a transmission unit configured to transmit data to printer,

wherein said transmission unit transmits data in the areas Nb and Nc on the N-th page and data in the area (N+1)a on the (N+1)th page to the printer, if said first discrimination unit discriminates that the data of the N-th page and the (N+1)th page can be stored in the memory and if said second discrimination unit discriminates that the data in the area Na has been transmitted to the printer,

wherein said transmission unit transmits data in the areas Na, Nb and Nc on the N-th page and data in the area (N+1)a on the (N+1)th page to the printer, if said first discrimination unit discriminates that the data of the N-th page and the (N+1)th page can be stored in the memory and if said second discrimination unit discriminates that the data in the area Na has not been transmitted to the printer,

wherein said transmission unit transmits data in the areas Nb and Nc on the N-th page to the printer, if said first discrimination unit discriminates that the data of the N-th page and the (N+1)th page cannot be stored in the memory and if said second discrimination unit discriminates that the data in the area Na has been transmitted to the printer, and

wherein said transmission unit transmits data in the areas Na, Nb and Nc on the N-th page to the printer, if said first discrimination unit discriminates that the data of the N-th page and the (N+1)th page cannot be stored in the memory and if said second discrimination unit discriminates that the data in the area Na has not been transmitted to the printer.

26. (New) An information processing apparatus for transmitting data to a printer, wherein the data is divided in a band unit in each of a plurality of colors in registration with a position of an image forming section for each color, said information processing apparatus comprising:

a discrimination unit configured to discriminate whether data of an N-th page and an (N+1)th page can be stored in a memory; and

a transmission unit configured to transmit data to the printer,

wherein said transmission unit transmits data of the (N+1)th page to the printer after completion of transmission of data of the N-th page, if said discrimination unit discriminates that the data of the N-th page and the (N+1)th page cannot be stored in the memory, and

wherein said transmission unit transmits data of the (N+1)th page to the printer before completion of transmission of data of the N-th page, if said discrimination unit discriminates that the data of the N-th page and the (N+1)th page can be stored in the memory.

27. (New) An information processing method for use in transmitting data to a printer, wherein the data is divided in a band unit in each of a plurality of colors in registration with a position of an image forming section for each color, in which when an N-th page is printed, areas on the N-th page overlapping an (N-1)th page, an (N+1)th page, and overlapping no page, are defined as Na, Nc and Nb, respectively, said information processing method comprising:

a first discrimination step of discriminating whether data of the N-th page and the (N+1)th page can be stored in a memory;

a second discrimination step of discriminating whether data in the area Na has been transmitted to the printer; and

a transmission step of transmitting data to printer,

wherein said transmission step transmits data in the areas Nb and Nc on the N-th page and data in the area (N+1)a on the (N+1)th page to the printer, if said first discrimination step discriminates that the data of the N-th page and the (N+1)th page can be

stored in the memory and if said second discrimination step discriminates that the data in the area Na has been transmitted to the printer,

wherein said transmission step transmits data in the areas Na, Nb and Nc on the N-th page and data in the area (N+1)a on the (N+1)th page to the printer, if said first discrimination step discriminates that the data of the N-th page and the (N+1)th page can be stored in the memory and if said second discrimination step discriminates that the data in the area Na has not been transmitted to the printer,

wherein said transmission step transmits data in the areas Nb and Nc on the N-th page to the printer, if said first discrimination step discriminates that the data of the N-th page and the (N+1)th page cannot be stored in the memory and if said second discrimination step discriminates that the data in the area Na has been transmitted to the printer, and

wherein said transmission step transmits data in the areas Na, Nb and Nc on the N-th page to the printer, if said first discrimination step discriminates that the data of the N-th page and the (N+1)th page cannot be stored in the memory and if said second discrimination step discriminates that the data in the area Na has not been transmitted to the printer.

28. (New) An information processing method for use in transmitting data to a printer, wherein the data is divided in a band unit in each of a plurality of colors in registration with a position of an image forming section for each color, said information processing apparatus comprising:

a discrimination step of discriminating whether data of an N-th page

and an (N+1)th page can be stored in a memory; and

a transmission step of transmitting data to the printer,

wherein said transmission step transmits data of the (N+1)th page to the printer after completion of transmission of data of the N-th page, if said discrimination step discriminates that the data of the N-th page and the (N+1)th page cannot be stored in the memory, and

wherein said transmission step transmits data of the (N+1)th page to the printer before completion of transmission of data of the N-th page, if said discrimination step discriminates that the data of the N-th page and the (N+1)th page can be stored in the memory.

29. (New) A computer-readable storage medium storing an information processing program for controlling a computer to transmit data to a printer, wherein the data is divided in a band unit in each of a plurality of colors in registration with a position of an image forming section for each color, in which when an N-th page is printed, areas on the N-th page overlapping an (N-1)th page, an (N+1)th page, and overlapping no page, are defined as Na, Nc and Nb, respectively, said information processing program comprising:

a first discrimination step of discriminating whether data of the N-th page and the (N+1)th page can be stored in a memory;

a second discrimination step of discriminating whether data in the area Na has been transmitted to the printer; and

a transmission step of transmitting data to printer,

wherein said transmission step transmits data in the areas Nb and Nc on

the N-th page and data in the area (N+1)a on the (N+1)th page to the printer, if said first discrimination step discriminates that the data of the N-th page and the (N+1)th page can be stored in the memory and if said second discrimination unit discriminates that the data in the area Na has been transmitted to the printer,

wherein said transmission step transmits data in the areas Na, Nb and Nc on the N-th page and data in the area (N+1)a on the (N+1)th page to the printer, if said first discrimination step discriminates that the data of the N-th page and the (N+1)th page can be stored in the memory and if said second discrimination step discriminates that the data in the area Na has not been transmitted to the printer,

wherein said transmission step transmits data in the areas Nb and Nc on the N-th page to the printer, if said first discrimination step discriminates that the data of the N-th page and the (N+1)th page cannot be stored in the memory and if said second discrimination step discriminates that the data in the area Na has been transmitted to the printer, and

wherein said transmission step transmits data in the areas Na, Nb and Nc on the N-th page to the printer, if said first discrimination step discriminates that the data of the N-th page and the (N+1)th page cannot be stored in the memory and if said second discrimination step discriminates that the data in the area Na has not been transmitted to the printer.

30. (New) A computer-readable storage medium storing an information processing program for controlling a computer to transmit data to a printer, wherein the data is divided in a band unit in each of a plurality of colors in registration with a position of an image

forming section for each color, said information processing program comprising:

a discrimination step of discriminating whether data of an N-th page and an (N+1)th page can be stored in a memory; and

a transmission step of transmitting data to the printer,

wherein said transmission step transmits data of the (N+1)th page to the printer after completion of transmission of data of the N-th page, if said discrimination step discriminates that the data of the N-th page and the (N+1)th page cannot be stored in the memory, and

wherein said transmission step transmits data of the (N+1)th page to the printer before completion of transmission of data of the N-th page, if said discrimination step discriminates that the data of the N-th page and the (N+1)th page can be stored in the memory.